



1 OF PAPERS  
GIRLALLY FILED

#5  
0590  
0620

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Robert A. Zimmer	37 C.F.R. § 1.8 C. Certificate of Mailing I hereby certify that this correspondence is today being deposited with the U.S. Postal Service on the date indicated below in an envelope with appropriate postage affixed thereto and addressed to the Commissioner for Patents and Trademarks, Washington, D.C. 20231. August 16, 2002 <i>Dean McCue</i> Dean McCue
Serial No.:	10/050,903	
Filing Date:	January 16, 2002	
Title of Application:	Compositions and Methods for Enhanced Pharmacological Activity Through Oral and Parenteral Administration of Compositions Comprising Polypeptide Drug Substances and Other Poorly Absorbed Active Ingredients	

August 16, 2002

Commissioner for Patents  
Washington, DC 20231

PRELIMINARY AMENDMENT UNDER 37 CFR § 1.115

Sir:

In the above-referenced matter, please amend the application as follows:

In the Specification:

Please replace paragraph 7 with the following amended paragraph 7:

[0007] In a first embodiment, the present invention provides a pharmaceutical agent comprising a carrier moiety and a therapeutically active peptide species, wherein the peptide is in the form  $aa_n$ , where  $n$  is the number of amino acid residues in the peptide. Preferably, the carrier moiety comprises an aryl or alkyl group of sufficient length or steric bulk to protect the active peptide species from enzymatic degradation *in vivo*. More preferably, the carrier is selected from a group comprising cinnamoyl, benzoyl, phenylacetyl, 3,4-methylenedioxycinnamoyl, 3,4,5-trimethoxycinnamoyl, *t*-butoxycarbonyl, benzyloxycarbonyl, pivaloyl, N-9-fluorenylmethoxycarbonyl, and fumaroyl. Furthermore the carrier moiety can be chemically linked to a therapeutically active peptide species of the general formula  $aa_n$ , where  $n$  is an integer from 2 to 40. In addition, this embodiment of the present invention contemplates a therapeutically active